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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,158	03/23/2004	Katsumi Sakamaki	119161	2168
25944 OLIFE & RER	7590 05/07/2007 PIDGE PLC		EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928			MCCULLOUGH, MICHAEL C	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			. 3653	
			MAIL DATE	DELIVERY MODE
			05/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/806,158	SAKAMAKI ET A	SAKAMAKI ET AL.			
		Examiner	Art Unit				
		Michael C. McCulloug	h 3653				
Period fo	The MAILING DATE of this communications reply	n appears on the cover she	et with the correspondence a	address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory preto reply within the set or extended period for reply will, by reply received by the Office later than three months after the ad patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMM FR 1.136(a). In no event, however, non. period will apply and will expire SIX (6 statute, cause the application to become	UNICATION. hay a reply be timely filed) MONTHS from the mailing date of this me ABANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	09 February 2007.					
	•	This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	4) Claim(s) 1-16 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)🖾	☑ Claim(s) <u>1-16</u> is/are rejected.						
· ·	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction a	and/or election requiremen	t.				
Applicati	on Papers						
9)	The specification is objected to by the Exa	miner.					
10)	The drawing(s) filed on is/are: a)[] accepted or b)□ objecte	d to by the Examiner.				
	Applicant may not request that any objection t	o the drawing(s) be held in at	peyance. See 37 CFR 1.85(a).	•			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
-12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International B	ureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-94	.8) Pape	er No(s)/Mail Date be of Informal Patent Application				
	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	· =	r:				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is recites the limitation "the sheet feed tray" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Araki et al. (US 2001/0020765) in view of Kakegawa et al. (US 6,565,079 B1) in farther view of Watase (US 2005/0073088 A1). Araki et al. discloses an image output unit (see Figure 1), a sheet feed member (see Figure 2 element 4), a separating member (see Figure 2 element 5) that rotates in reverse by retard motor (see Figure 4 element 12) that has a maximum torque output that the motor can operate at when required, a sheet feed tray (see Figure 2 element 2b), a sheet detection unit (see Figure 4 element 14) and a double-feeding state determination unit (see Paragraph 0081), a separating force adjusting unit (see Paragraph 0079-0083), and an information collection unit (see Paragraph 0111). Araki et al. does not disclose a separating member that rotates in reverse when a double feed occurs and rotates forward when one sheet is fed, a

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direction detection unit, and a holding unit. However, Kakegawa et al. discloses a similar device that includes a direction detection unit (see Figure 4 element 254) and a holding unit (see Figure 4 element 230 and Figure 28 step 1208) for the purposes of detecting rotation of the separating member (see column 15 lines 53-65) and applying a braking force to the separating roller to prevent a double feed (see column 11 line 66 through column 12 line 34). It would have been obvious for a person of ordinary skill in the art at the time of the applicant's invention to modify Araki et al. by utilizing a direction detection unit, as disclosed by Kakegawa et al., for the purpose of detecting rotation of the separating member. Araki et al. in view of Kakegawa et al. discloses all of the limitations except the separating member rotates in reverse when a double feed occurs and rotates forward when one sheet is fed.

However, Watase discloses a similar device that includes a separating member that rotates in reverse when a double feed occurs and rotates forward when one sheet is fed (see Figure 2 element 4) for the purpose of moving a sheet towards an operation and returning double fed sheets (see Paragraph 0037). It would have been obvious for a person of ordinary skill in the art at the time of the applicant's invention to modify Araki et al. in view of Kakegawa et al. by utilizing a separating member that rotates in reverse when a double feed occurs and rotates forward when one sheet is fed, as disclosed by Watase, for the purpose of moving a sheet towards an operation and returning double fed sheets.

Response to Arguments

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3:30 pm.

Applicant's arguments with respect to claims 1-16 have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. McCullough whose telephone number is (571) 272-7805. The examiner can normally be reached on Monday-Friday, 7:00 am -

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on (571) 272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MCM

PATRICK MACKEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600